

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 11, 27 and 30, ADD claim 31 and CANCEL claims 2-10, 12-26 and 28-29 in accordance with the following:

1. (Currently Amended) A current detection method of an inverter that converts DC input into AC output and supplies the AC output to a load, comprising:

allowing magnetic flux change occurring to a circuit wiring to act on a detecting conductor arranged in the vicinity of the circuit wiring, the magnetic flux change occurring because of a change in a circuit current due to discharge, both the detecting conductor and the circuit wiring being printed on a circuit board; and

detecting the change in the circuit current through the medium of the magnetic flux change by the detecting conductor.

2-10. (Canceled)

11. (Currently Amended) An anomaly detection method of an inverter that converts DC input into AC output and supplies the AC output to a load, comprising:

allowing magnetic flux change occurring to a circuit wiring to act on a detecting conductor arranged in the vicinity of the circuit wiring, the magnetic flux change occurring because of a change in a circuit current due to discharge, both the detecting conductor and the circuit wiring being printed on a circuit board; and

detecting the change in the circuit current through the medium of the magnetic flux change by the detecting conductor so as to detect based on a result of the detecting of the change in the circuit current whether or not anomaly exists in a current route including the load.

12-26. (Canceled)

27. (Currently Amended) A test method using an inverter that converts DC input into

AC output and supplies the AC output to a load, comprising:

allowing magnetic flux change occurring to a circuit wiring to act on a detecting conductor arranged in the vicinity of the circuit wiring, the magnetic flux change occurring because of a change in a circuit current due to discharge, both the detecting conductor and the circuit wiring being printed on a circuit board; and

detecting the change in the circuit current through the medium of the magnetic flux change by the detecting conductor so as to decide based on a result of the detecting of the change in the circuit current whether or not anomaly exists in a current route including the load.

28-29. (Canceled)

30. (Currently Amended) A current detection method, comprising:

allowing a magnetic flux change produced by a circuit to act on a detecting conductor located in a vicinity of the circuit, with the magnetic flux change occurring due to a change in a circuit current due to a discharge, both the detecting conductor and the circuit wiring being printed on a circuit board; and

detecting the change in the circuit current through the medium of the magnetic flux change on the detecting conductor.

31. (New) A current detection method, comprising:

allowing a magnetic flux change produced by a circuit current to act on a detecting conductor located in a vicinity of the circuit, both the detecting conductor and the circuit wiring being printed on a circuit board; and

detecting the change in the circuit current through the medium of the magnetic flux change on the detecting conductor.